

FIG. 1

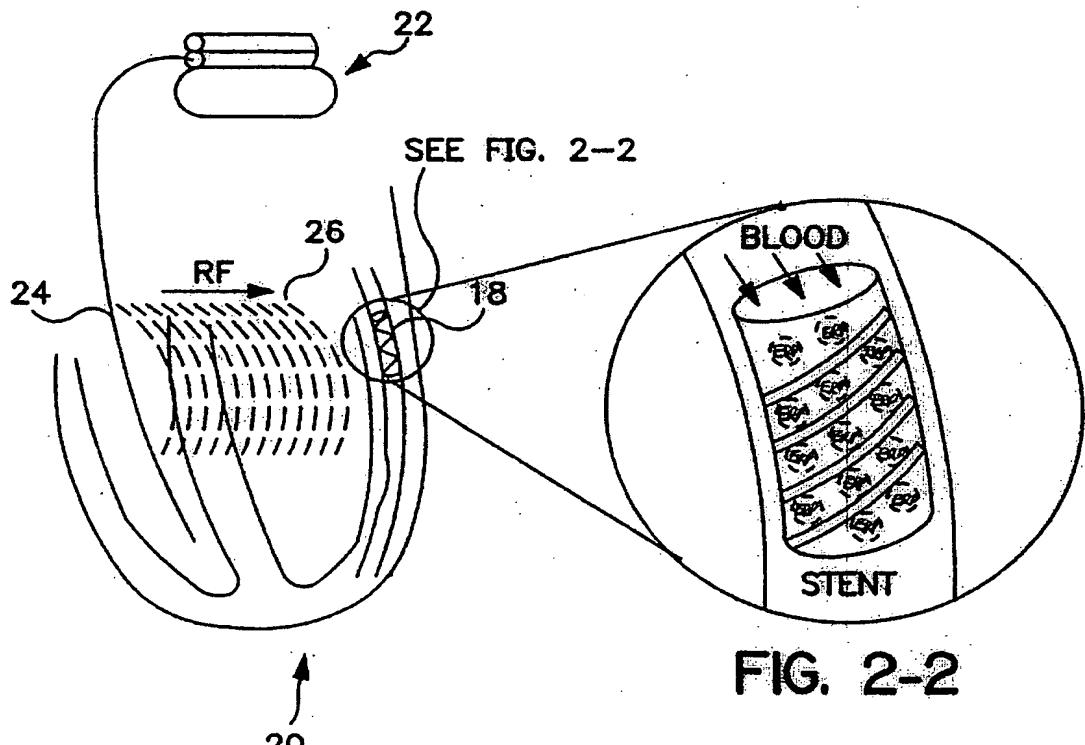


FIG. 2-1

FIG. 2-2

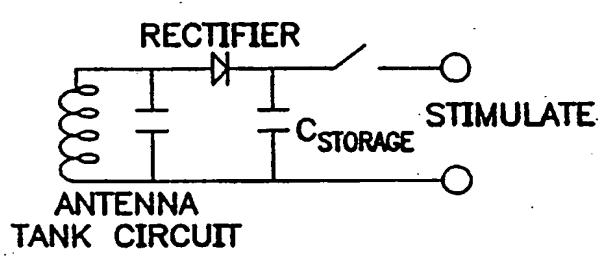


FIG. 2A

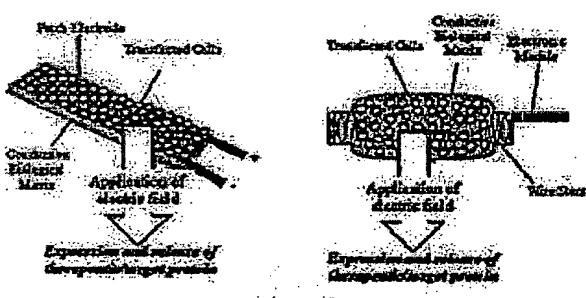


FIG. 3

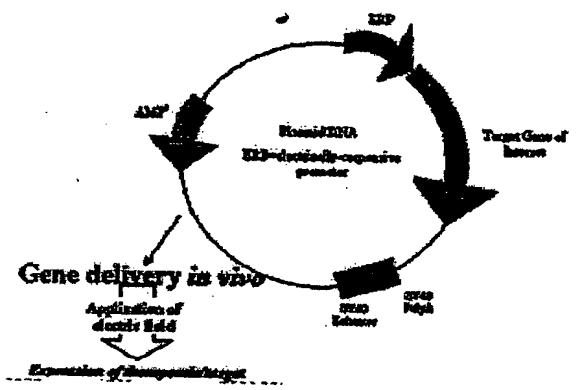


FIG. 4

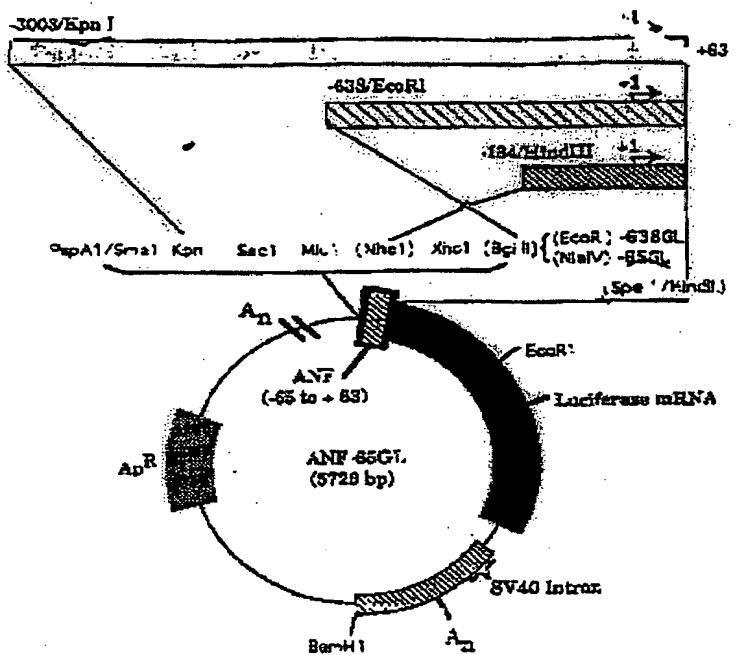


FIG. 5

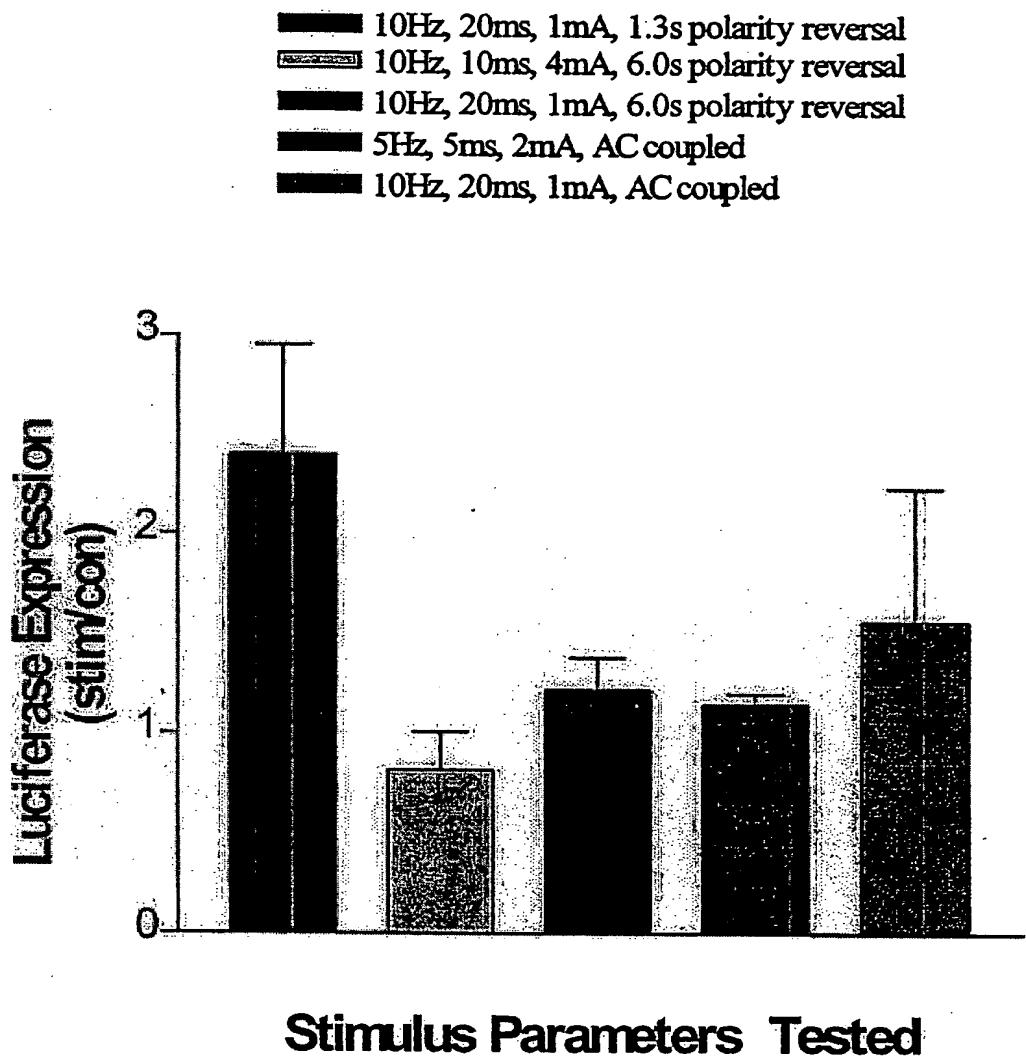


FIG. 6

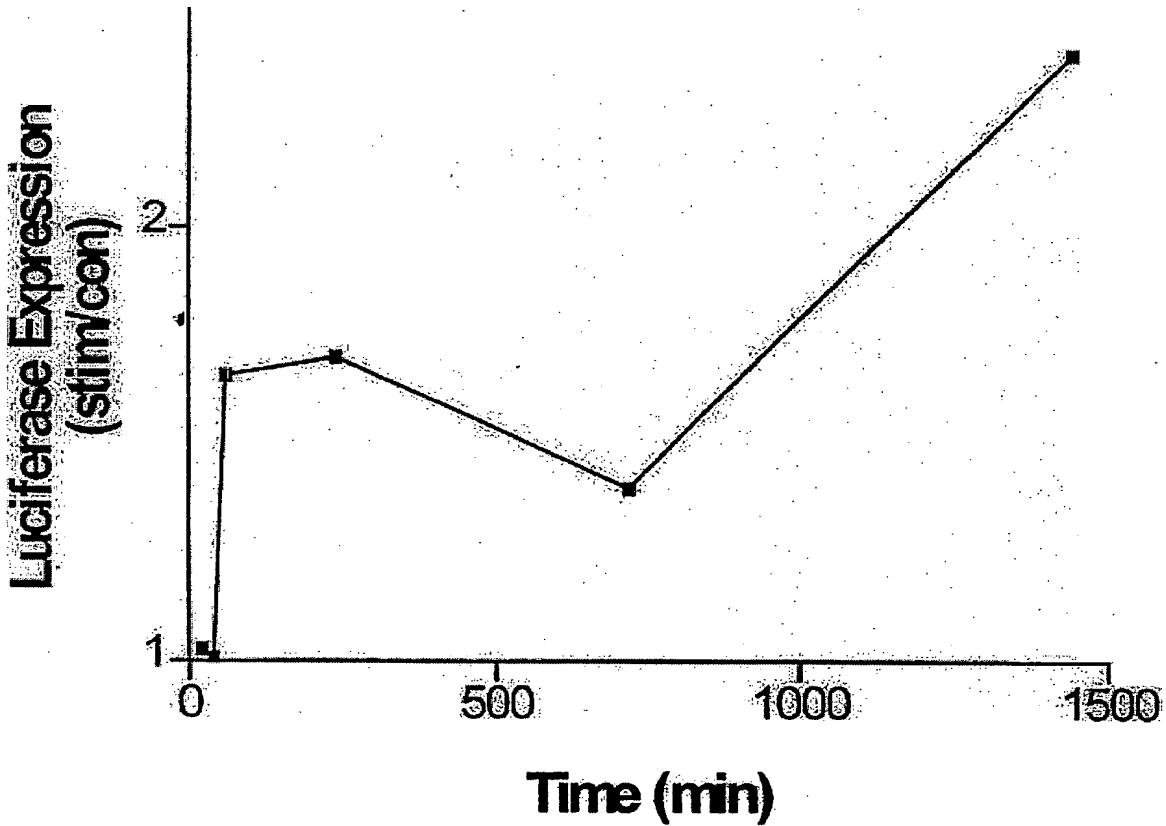


FIG. 7

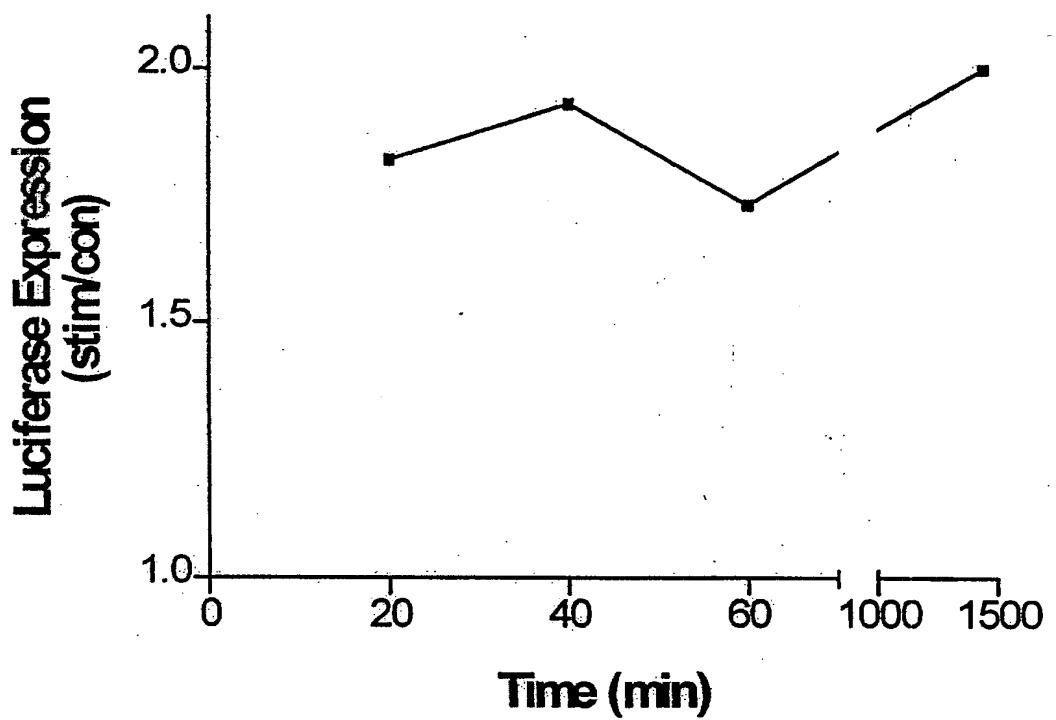


FIG. 8

Electrically Responsive Promoter Stimulation Apparatus

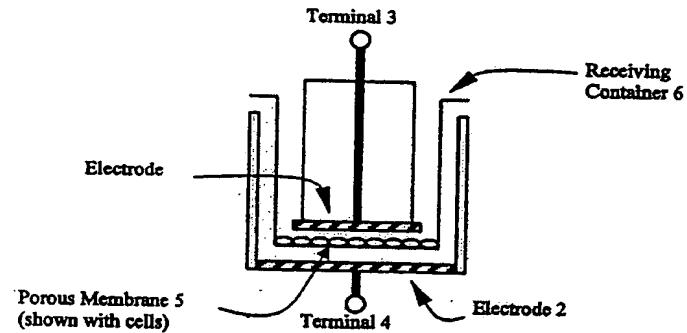


FIG. 9

Electrical Stimulation

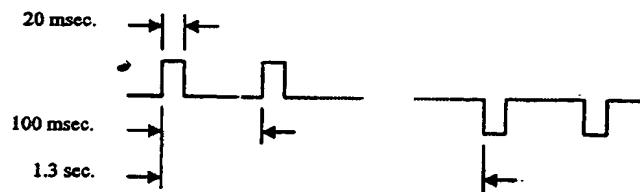


FIG. 10

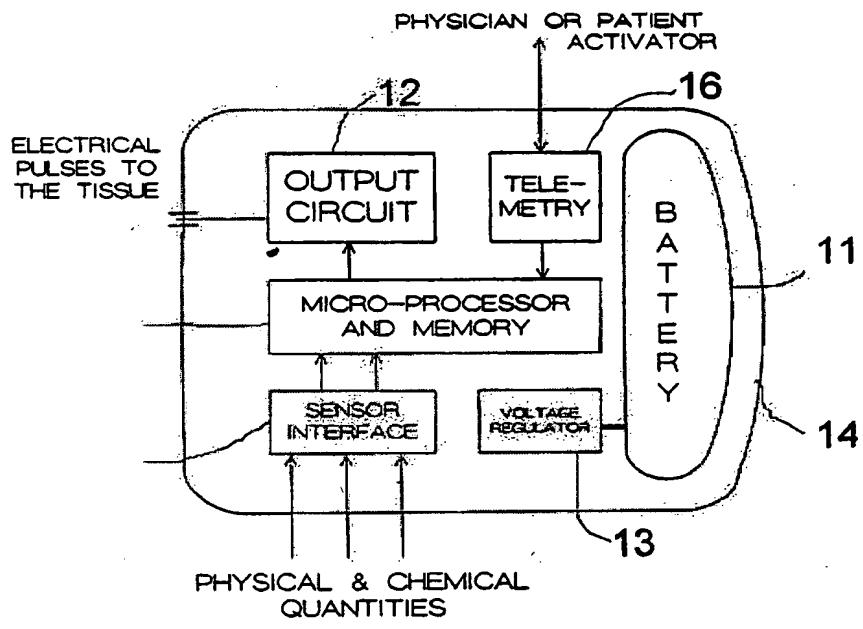


FIG. 11

P7417

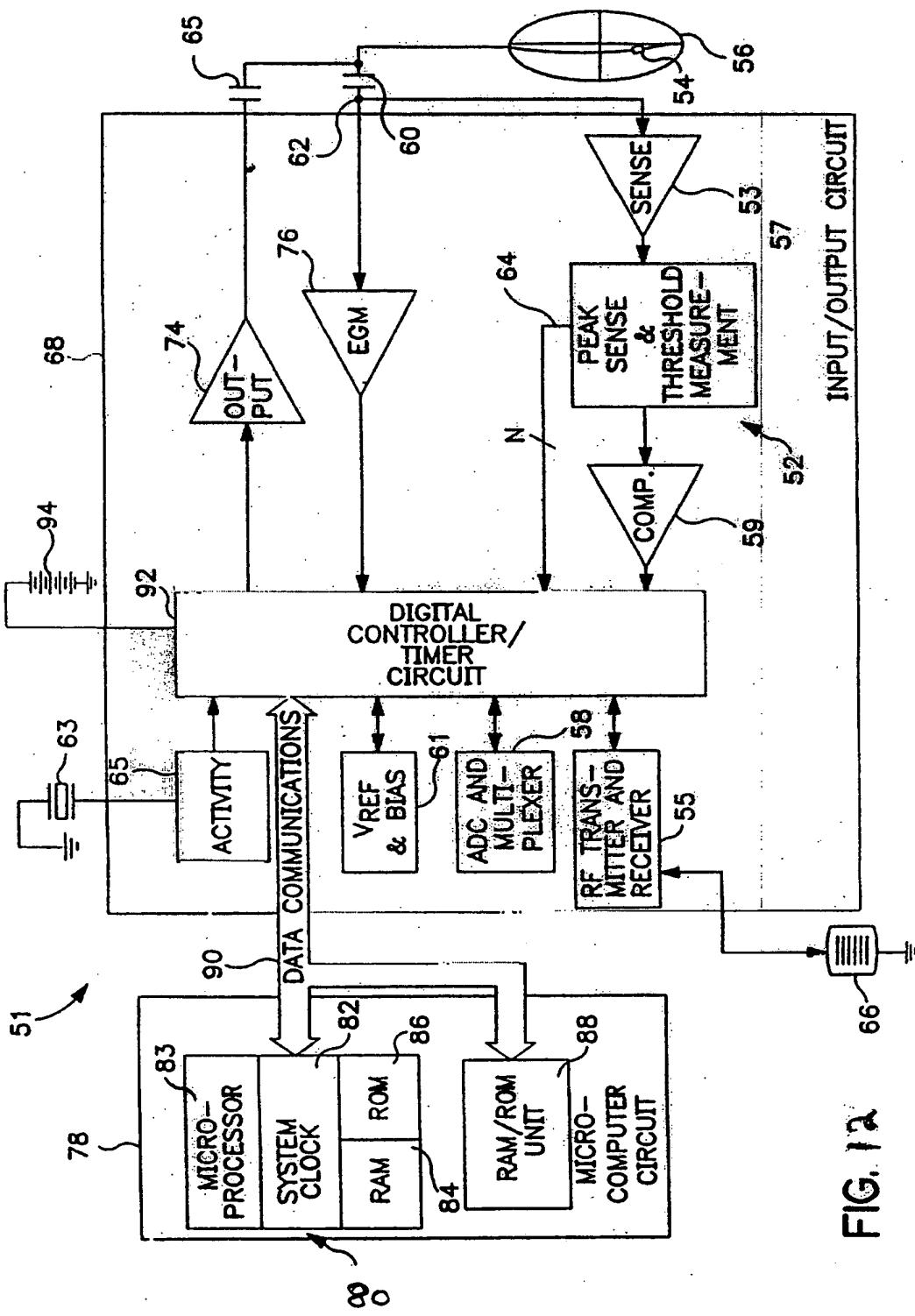


FIG. 12

Simplified Schematic of the Output Circuit of A Stimulator

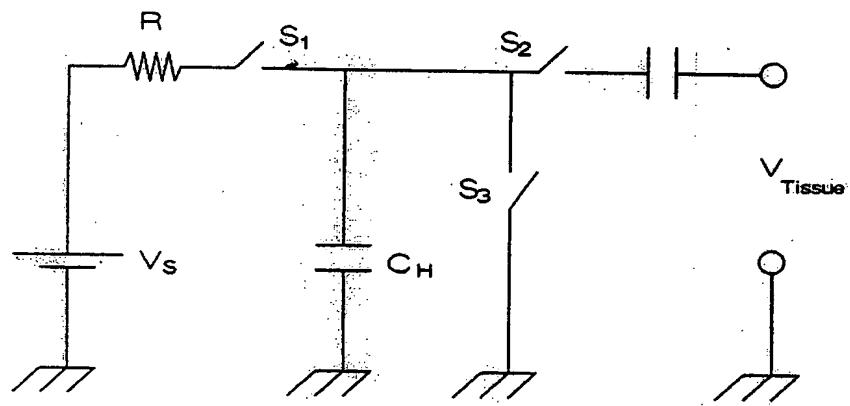


FIG. 13

Equivalent Circuit of the Output Stage During Stimulation

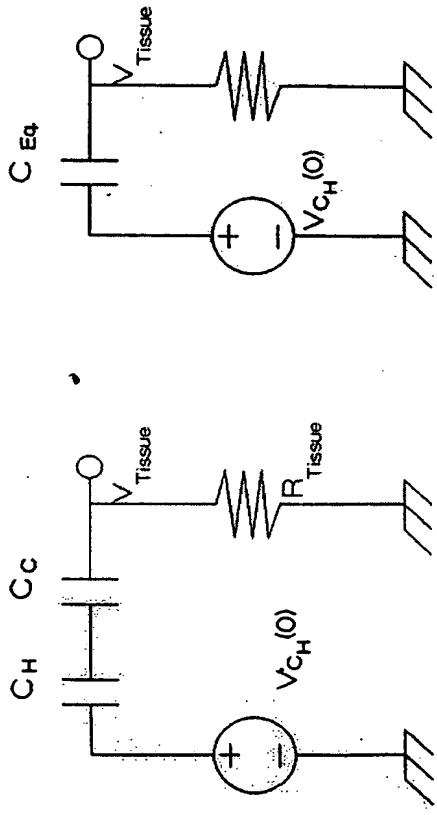


FIG. 14.

Timing of the Internal Signals and the Tissue Stimulation Signal

"In the first part of the figure, three signals are shown: S₁, S₂, and S₃. These signals are used to control the timing of the stimulation pulse. The stimulation pulse is labeled 'STIM' and is triggered by the rising edge of S₁. The pulse width is indicated by a double-headed arrow below the signal, labeled '0.3'. The pulse is followed by two phases: 'DISCHARGE C_c' and 'DISCHARGE C_H'. The total duration of the pulse is labeled '6.7'. After the pulse, there is a 'CHARGE C_H' phase, which is followed by another pulse. The second pulse has a width of '3.0' and a total duration of '10'. The total time interval between the start of the first pulse and the start of the second pulse is labeled '20 msec'.

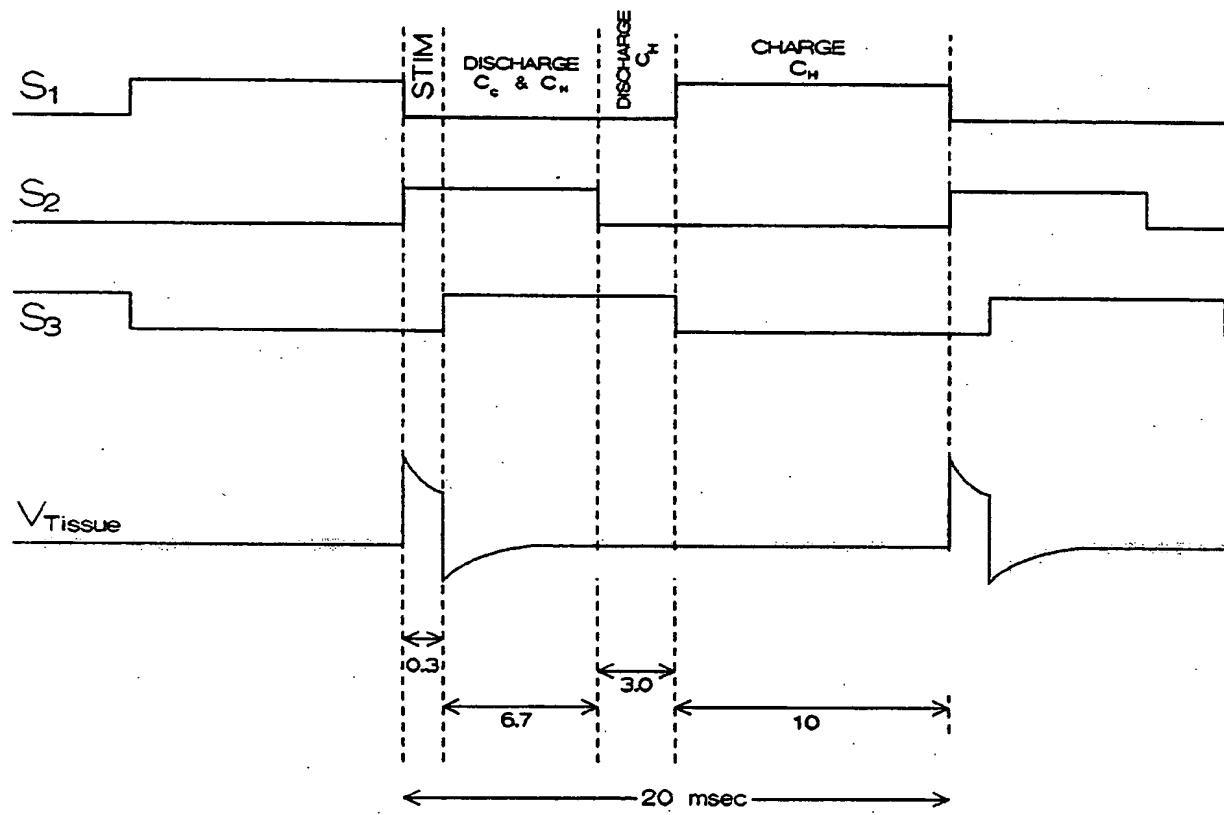


FIG. 15